

REMARKS

Claims 1-65 are pending. In the Office Action dated April 5, 2006, the Examiner took the following action: (1) rejected claims 1-2, 19, 32-33 and 52 for obviousness-type double patenting over claims 1-2, 19 and 33 of copending Application No. 10/629,378; (2) rejected claim 19 under 35 U.S.C. § 102(e) as being anticipated by U.S. Application Publication No. 2003/0097389 to Saulsbury et al.; and (3) objected to claims 3-18, 20-31, 34-51 and 53-65 as being dependent upon a rejected base claim but otherwise allowable.

Applicant respectfully requests reconsideration of the obviousness-type double patenting rejection of claims 1, 2, 19, 32-33 and 52 over claims 1, 2, 19 and 33 of copending Application No 10/629,378. The basis for this double patenting rejection are that, although the conflicting claims are not identical, they are not patently distinct from each other because the claim subject matter of the instant application is equivalent to the claim subject matter of the copending application. To the contrary, all of the conflicting claims of the copending application include the limitation of a vector processing and re-ordering system coupled to the array control unit and the memory device. The claims specify that the vector processing and re-ordering system is operable to receive data from the memory device that may be stored in the memory device in other than a contiguous manner, re-order received data into a vector of contiguous data, process the data in accordance with an instruction received from the array control unit to provide results data, and pass the results data to the memory device. This is a significant limitation to the claims of the copending application, which renders the claims of the copending application unobvious over the claims of this application. Therefore, the obviousness-type double patenting rejection should be withdrawn.

Although applicant does not believe claim 19 is anticipated by the cited reference, applicant is amending the claim and adding new claims to obtain coverage for the claims considered to be allowable. Specifically, claim 19 has been amended to add the subject matter of allowable claim 20. New claim 66 corresponds to claim 19 in combination with allowable claim 21, new claim 77 corresponds to claim 19 in combination with allowable claim 23, new claim 86 corresponds to claim 19 in combination with allowable claim 28, new claim 90 corresponds to

claim 19 in combination with allowable claim 30, and claim 92 corresponds to claim 19 in combination with allowable claim 31.

All of the claims remaining in the application, *i.e.*, claims 1-19 and 21-92, are now clearly allowable. Favorable consideration and a timely Notice of Allowance are earnestly solicited.

Respectfully submitted,

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Enclosures:

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Fee Transmittal Sheet (+copy)

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